

09409880 SANTA CLARA RIVER AT GUNLOCK, UT

LOCATION--Lat 37°16'55", long 113°46'00", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 28, T. 40 S., R. 17 W., Washington County, Hydrologic Unit 15010008, on right bank at downstream side of bridge on county road at Gunlock, 0.5 mi downstream from tailrace of powerhouse.

DRAINAGE AREA.--271 mi<sup>2</sup>.

PERIOD OF RECORD.--August 1969 to current year.

GAGE--Water-stage recorder. Crest-stage gage installed May 24, 1989. Elevation of gage is 3,628 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for daily discharges less than 2 ft<sup>3</sup>/s, which are poor. Many diversions for irrigation upstream of gage. Some regulation of low flow by several reservoirs and powerplant upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,830 ft<sup>3</sup>/s, estimated, Mar 11, 1995, gage height, 8.07 ft; minimum daily discharge, no flow several days during 1977 and Jul 10 and 18, 2003.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,520 ft<sup>3</sup>/s, Sep 9, gage height, 6.37 ft; minimum daily discharge, 0.12 ft<sup>3</sup>/s, Jul 11.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.74	2.3	3.1	6.7	9.7	16	9.2	16	11	2.3	0.41	0.82
2	1.0	2.2	3.2	7.3	5.7	16	14	12	10	1.7	0.56	0.66
3	1.1	1.9	3.2	8.0	6.0	14	20	16	11	1.5	0.34	0.63
4	1.2	1.9	3.3	7.0	5.7	18	18	15	9.5	0.66	0.52	2.0
5	0.98	2.0	3.5	6.6	5.7	18	18	15	9.7	0.32	0.39	2.0
6	1.1	1.9	3.5	6.4	5.8	16	16	15	9.4	0.41	0.28	1.9
7	1.1	2.0	3.8	6.4	5.7	20	16	13	9.5	0.26	0.24	2.0
8	0.88	2.4	4.8	6.3	5.7	26	17	14	9.2	0.55	0.29	1.8
9	0.59	2.6	4.6	6.3	5.6	37	18	11	7.7	0.79	0.29	32
10	0.63	2.5	4.9	6.3	5.6	36	18	22	7.6	0.33	0.32	8.9
11	0.94	2.3	5.1	6.1	5.7	37	15	28	7.5	0.12	0.36	3.6
12	0.86	2.4	5.2	6.1	6.2	27	18	26	5.2	0.34	0.48	4.4
13	0.75	2.7	5.7	6.0	5.9	23	18	27	3.3	0.30	0.32	3.4
14	1.1	2.6	6.5	6.0	5.7	22	19	26	4.8	0.23	0.30	1.7
15	1.1	2.3	6.5	6.0	5.7	20	16	22	4.1	0.29	0.49	1.5
16	0.95	2.6	6.4	6.2	5.7	17	15	17	3.4	0.74	0.95	1.9
17	0.70	2.9	6.5	6.4	5.6	13	13	19	3.0	1.0	0.63	1.8
18	0.99	3.1	6.6	6.6	5.4	13	14	18	3.3	1.5	0.74	1.6
19	0.86	3.1	6.5	6.6	5.5	15	19	18	3.0	1.2	0.63	3.5
20	0.89	3.2	6.1	7.4	5.6	14	18	17	2.1	0.49	0.55	2.7
21	1.5	2.9	6.3	9.5	6.0	12	17	17	3.1	0.63	0.62	3.0
22	1.2	2.6	6.3	9.7	6.3	13	16	17	3.6	0.43	8.5	2.7
23	1.5	2.6	6.4	8.0	6.4	17	16	16	3.2	0.40	2.4	2.4
24	1.1	2.8	6.5	9.0	7.2	24	15	18	2.9	0.32	1.6	2.3
25	1.7	3.0	7.1	10	10	23	13	16	3.2	0.93	1.4	1.7
26	1.6	3.0	29	9.1	24	19	13	15	2.7	0.64	1.5	1.9
27	1.1	3.0	11	9.6	29	14	15	13	2.2	0.36	1.4	2.6
28	1.6	3.0	7.8	9.9	23	11	15	11	2.8	0.44	1.6	3.5
29	1.5	3.0	7.3	10	17	13	17	12	2.5	0.32	1.4	3.4
30	1.7	2.8	7.4	9.7	---	12	17	9.0	2.3	0.18	1.5	3.5
31	1.2	---	7.0	12	---	9.5	---	12	---	0.24	0.94	---
TOTAL	34.16	77.6	201.1	237.2	247.1	585.5	483.2	523.0	162.8	19.92	31.95	105.81
MEAN	1.10	2.59	6.49	7.65	8.52	18.9	16.1	16.9	5.43	0.64	1.03	3.53
MAX	1.7	3.2	29	12	29	37	20	28	11	2.3	8.5	32
MIN	0.59	1.9	3.1	6.0	5.4	9.5	9.2	9.0	2.1	0.12	0.24	0.63
AC-FT	68	154	399	470	490	1,160	958	1,040	323	40	63	210

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2004, BY WATER YEAR (WY)**

MEAN	10.4	14.8	15.4	20.7	36.0	50.1	38.1	39.5	28.8	11.3	8.59	8.25
MAX	28.0	30.9	26.0	95.4	372	211	150	222	138	40.4	30.5	26.5
(WY)	(1984)	(1981)	(1981)	(1980)	(1980)	(1979)	(1973)	(1973)	(1973)	(1995)	(1980)	(1980)
MIN	1.10	2.59	6.49	4.73	7.69	5.54	6.05	5.14	2.51	0.37	0.60	0.79
(WY)	(2004)	(2004)	(2004)	(1972)	(1972)	(2002)	(1977)	(1989)	(2003)	(2003)	(2003)	(2003)

## SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1970 - 2004

ANNUAL TOTAL	2,000.52		2,709.34				
ANNUAL MEAN	5.48		7.40			23.4	
HIGHEST ANNUAL MEAN						86.8	1980
LOWEST ANNUAL MEAN						6.04	2003
HIGHEST DAILY MEAN	46	Mar 17	37	Mar 9		2,040	Feb 15, 1980
LOWEST DAILY MEAN	0.00	Jul 10	0.12	Jul 11		0.00	Jul 26, 1977
ANNUAL SEVEN-DAY MINIMUM	0.13	Jul 13	0.31	Aug 5		0.02	Aug 1, 1977
ANNUAL RUNOFF (AC-FT)	3,970		5,370			16,950	
10 PERCENT EXCEEDS	12		18			45	
50 PERCENT EXCEEDS	3.3		5.6			12	
90 PERCENT EXCEEDS	0.46		0.61			4.2	